



DM588

DMR mobile radio

As a DMR mobile radio with fashionable design, totally functionality, DM588 brings extraordinary experience of digital communication in variety of scenarios such as taxis, truck, Agriculture, delivery, school bus, and Ambulance.



DM588 DMR Mobile Radio

Key Features and Benefits

- **Compact, Sophisticated and Stylish**

Fashionable design, only 151mm×149mm×47mm in size and weighs 1.15kg with a 1.8" color HDTFT screen.

- **Smart Digital-Analog Auto Detection**

DM588 can be configured in analog, digital or mixed mode. When configured in mixed mode, the mobile dynamically switch mode depending on the type of signal received.

- **Versatile Voice Calls**

Enhanced digital voice call feature facilitates call management between team members and ensures communication privacy.

- **Secure Communication**

DM588 provides basic and enhanced encryption capability using ARC4 algorithm. It ensures secure communication on voice call and data transfer between team members. DES, and 256 bits AES encryption algorithm are optional.

- **Rich Signalings**

Supports multiple advanced signalings, including MDC1200, DTMF, 2 tone and 5 tone, compatible with analog systems to achieve seamless analog to digital conversion.

- **Versatile Services**

In addition to conventional communication services, DM588 provides multiple functions such as Text Message, Radio Enable/Disable, Remote Monitor, Kill and Emergency calls.

- **Roaming**

Automatic roaming helps you to use the radio freely among all sites on an IP Multi-Site Connect system.

- **Pseudo Trunk**

Dynamically allocation of slot while using repeater mode. Improve channel utilization providing simultaneous communication on radios.

- **GPS Location (Optional)**

Integrated GPS enables the real time tracking of the mobile working team.

Standard Accessories



Hand Microphone



Mounting Bracket



Power Cord

Optional Accessories



Hand Microphone
(with keypad)



Vehicle Antenna



GPS Antenna

Specifications

General

| | |
|-----------------------|-----------------------|
| Frequency Range | 136~174MHz,400~480MHz |
| Channel Capacity | 256 |
| Zone Capacity | 16 |
| Channel Spacing | 20kHz/25kHz/12.5kHz |
| Operating Voltage | 13.6V±15% |
| Current Drain Standby | <0.6A |
| Receive | <2.0A |
| Transmit | <8A(25W) |
| Frequency Stability | 0.5ppm |
| Antenna Impedance | 50Ω |
| Dimensions(H·W·D) | 151mm×149mm×47mm |
| Weight | 1.15kg |
| LCD Display | 1.77inch, 5 rows |

Receiver

| | |
|-----------------------------|---|
| Sensitivity Analog | 0.22μV(12dB SINAD) |
| Digital | 0.22μV/BER5% |
| Selectivity | 60dB@12.5kHz, 70dB@20/25kHz(TIA-603) 60dB@12.5kHz, 70dB@20/25kHz(ETSI) |
| Spurious Response Rejection | 70dB@12.5/20/25kHz(TIA-603) 70dB@12.5/20/25kHz(ETSI) |
| Inter-modulation | 70dB@12.5kHz/25kHz(TIA-603) 65dB@12.5kHz/25kHz(ETSI) |
| Hum and Noise | 40dB@12.5kHz, 45dB@20/25kHz |
| Rated Audio Power Output | 3W |
| Rated Audio Distortion | 3% (Typical) |
| Audio Response | +1~-3dB |
| Conducted Spurious Emission | -57dBm@<1GHz, -47dBm@>1GHz |

Transmitter

| | |
|-------------------------|---|
| RF Power Output | Low Power:5W,High Power: 25W |
| FM Modulation | 11K0F3E@12.5kHz,14K0F3E@20kHz, 16K0F3E@25kHz |
| 4FSK Digital Modulation | 12.5kHz Data: 7K60F1D&7K60FXD, 12.5kHz Voice: 7K60F1E&7K60FXE, Combination of 12.5kHz Voice and Data: 7K60F1W |
| Modulation Limiting | ±2.5kHz@12.5kHz, ±4.0kHz@20kHz, ±5.0kHz@25kHz |
| FM Hum & Noise | 40dB@12.5kHz, 45dB@20kHz/25kHz |
| Adjacent Channel Power | 60dB@12.5kHz, 70dB@20kHz/25kHz |
| Audio Response | +1~-3dB |
| Audio Distortion | ≤3% |
| Digital Vocoder Type | AMBE+2™ |
| Digital Protocol | ETSI-TS 102 361-1,-2,-3 |

GPS

Accuracy specs are for long-term tracking(5 satellites visible at nominal-130dBm)

| | |
|------------------------------------|------------|
| TTFF(Time To First Fix)-Cold Start | <1 minute |
| TTFF(Time To First Fix)-Hot Start | 10 seconds |
| Horizontal Accuracy | 10 m |

Environmental Specifications

| | |
|----------------------------|--|
| Operating Temperature | -30~+60 |
| Storage Temperature | -40~+85 |
| ESD | IEC610000-4-2(Level4) ±4kV(Contact) ±8kV(air) |
| American Military Standard | MIL-STD-810-C/D/E/F/G |
| Dust & Water Protection | IP54 Standard |
| Humidity | Per MIL-STD-810 C/D/E/F/G Standard |
| Shock & Vibration | Per MIL-STD-810 C/D/E/F/G Standard |